

<110> GeneMatrix Inc.; Kim, Nam-Keun
 <120> Method for detecting base mutation
 <130> 11281-014-999
 <150> KR2002-0063832
 <151> 2002-10-18
 <150> KR2003-0061066
 <151> 2003-09-02
 <160> 33
 <170> KopatentIn 1.71
 <210> 1
 <211> 69
 <212> DNA
 <213> Homo sapiens
 <400> 1
 gtttcacttg ataaagcaat aaaatgctat tcacagctgc atgaggctac acccttcttt 60
 tgaatgcag 69
 <210> 2
 <211> 34
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Forward primer for 4th intron region of maspin gene
 <400> 2
 tcacttgata aagcaataaa aggatggcta ttca 34
 <210> 3
 <211> 28
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Reverse primer for 4th intron region of maspin gene
 <400> 3
 cattcaaaag aagggtgtag cctcatgc 28
 <210> 4
 <211> 68
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Resulting PCR Fragment

<400> 4
tcacttgata aagcaataaa aggatggcta ttcactagct gcatgaggct acacccttct 60
tttgaatg 68

<210> 5
<211> 68
<212> DNA
<213> Artificial Sequence

<220>
<223> Resulting PCR Fragment

<400> 5
cattcaaaag aagggtgtag cctcatgcag ctagtgaata gccatccttt tattgcttta 60
tcaagtga 68

<210> 6
<211> 73
<212> DNA
<213> Homo sapiens

<400> 6
ctggagtatt atccttgcag gcttgatatt aagcttgaaa tttctcccca aagagattta 60
gttaacaggc aaa 73

<210> 7
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer for 4th intron region of maspin gene

<400> 7
gagtattatc cttgcaggct tggatgatat gaag 34

<210> 8
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer for 4th intron region of maspin gene

<400> 8
gcctgttaac taaatctctt tggggagaa 29

<210> 9

<211> 72
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Resulting PCR Fragment

 <400> 9
 gagtattatc cttgcaggct tggatgatat gaagctttga aatttctccc caaagagatt 60
 tagttaacag gc 72

 <210> 10
 <211> 72
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Resulting PCR Fragment

 <400> 10
 gcctgttaac taaatctctt tggggagaaa tttcaaagct tcatatcatc caagcctgca 60
 aggataatac tc 72

 <210> 11
 <211> 60
 <212> DNA
 <213> Hepatitis B virus

 <400> 11
 ttccccact gtttggcttt cagttatatg gatgatgtgg tattgggggc caagtctgta 60
 60

 <210> 12
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer for HBV

 <400> 12
 ttccccact gtttggctgg atgtcagtta t 31

 <210> 13
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer for HBV

<400> 13
 tacagacttg gcccccaata ccacatgatc 30

<210> 14
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Resulting PCR fragment

<400> 14
 ttcccccaact gtttggtggt atgtcagtta tatggatcat gtggtattgg gggccaagtc 60
 tgta 64

<210> 15
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Resulting PCR fragment

<400> 15
 tacagacttg gcccccaata ccacatgatc catataactg acatccagcc aaacagtggg 60
 ggaa 64

<210> 16
 <211> 244
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> 5'Noncoding region of HCV

<400> 16
 gcagaaagcg tctagccatg gcgttagtat gagggtcgtg cagcctccag gacccccctt 60
 cccgggagag ccatagtggg ctgcggaacc ggtgagtaca ccggaattgc caggacgacc 120
 gggtcctttc ttggatcaac ccgctcaatg cctggagatt tgggcgtgcc cccgcaagac 180
 tgctagccga gtagtggttg gtcgcgaaag gccttggtgg actgcctgat aggggtgctt 240
 cgag 244

<210> 17
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer of 5'NCR of HCV

<400> 17
 gcagaaagcg tctagccatg gcgt 24

<210> 18
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reverse primer of 5'NCR of HCV

<400> 18
 ccctatcagg cagtaccaca aggc 24

<210> 19
 <211> 226
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Resulting PCR fragment

<400> 19
 cgtctagcca tggcgtagt atgagtgtcg tgcagcctcc aggaccccc ctcccgggag 60
 agccatagtgt gtctgcggaa ccggtgagta caccggaatt gccaggacga ccgggtcctt 120
 tcttgatca acccgctcaa tgcctggaga ttggggcgtg ccccgcaag actgctagcc 180
 gagtagtggtt gggtcgcgaa aggccttgtg gtactgcctg ataggg 226

<210> 20
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer

<400> 20
 cgtctagcca tggcgtagg gatgatgagt gt 32

<210> 21
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reverse primer

<400> 21
 ccctatcagg cagtaccaca aggc 24

<210> 22
 <211> 230
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Resulting PCR fragment

<400> 22
 cgtctagcca tggcgtagg gatgatgagt gtcgtgcagc ctccaggacc cccctccccg 60
 ggagagccat agtgggtctgc ggaaccgggtg agtacaccgg aattgccagg acgaccgggt 120
 cttttcttgg atcaaccgc tcaatgcctg gagatttggg cgtgcccccg caagactgct 180
 agccgagtag tgttggtctg cgaaaggcct tgtggtactg cctgataggg 230

<210> 23
 <211> 230
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Resulting PCR fragment

<400> 23
 ccctatcagg cagtaccaca aggcctttcg cgaccaaca ctactcggct agcagtcttg 60
 cgggggcacg cccaaatctc caggcattga gcgggttgat ccaagaaagg acccggtcgt 120
 cctggcaatt ccggtgtact caccggttcc gcagaccact atggctctcc cgggaggggg 180
 ggtcctggag gctgcacgac actcatcatc cctaacgcca tggctagacg 230

<210> 24
 <211> 133
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Template DNA

<400> 24
 gtgggtctgc gaaccgggtga gtacaccgga attgccagga cgaccgggtc ctttcttggg 60
 tcaaccgct caatgcctgg agatttgggc gtgccccgc aagactgcta gccgagtagr 120
 gttgggtrgc gaa 133

<210> 25

<211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer

 <400> 25
 gtggtctgtc caaccggtga gtacaccgga at 32

 <210> 26
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer

 <400> 26
 ttcgcraccc aacrctactc caacggtccg gctag 35

 <210> 27
 <211> 142
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Resulting PCR fragment

 <400> 27
 gtggtctgtc caaccggtga gtacaccgga attgccagga cgaccggggtc ctttcttgga 60
 tcaaccgct caatgcctgg agatttgggc gtgccccgc aagactgcta gccggaccgt 120
 tggagtagrg ttgggtrgcg aa 142

 <210> 28
 <211> 142
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Resulting PCR fragment

 <400> 28
 ttcgcraccc aacrctactc caacggtccg gctagcagtc ttgcgggggc acgccc aaat 60
 ctccaggcat tgagcggggtt gaccttgaa aggaccgggt cgtcctggca attccgggtgt 120
 actcaccggt tggacagacc ac 142

 <210> 29
 <211> 59

<212> DNA
<213> Artificial Sequence

<220>
<223> Template DNA

<220>

<221> modified_base
<222> (4)
<223> i

<400> 29
gacnggggtcc tttcttggat caacccgctc aatgcctgga gatttgggcg tgcccccg 59

<210> 30
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer

<220>
<221> modified_base
<222> (4)
<223> i

<400> 30
gacnggggtcc tggatgtctt gga 23

<210> 31
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 31
gcggggggcac ggatgcccaa at 22

<210> 32
<211> 67
<212> DNA
<213> Artificial Sequence

<220>
<223> Resulting PCR fragment

<220>
<221> modified_base

<222> (4)
<223> i

<400> 32
gacnggggtcc tggatgtctt ggatcaaccc gctcaatgcc tggagatttg ggcattccgtg 60
ccccccgc 67

<210> 33
<211> 67
<212> DNA
<213> Artificial Sequence

<220>
<223> Resulting PCR fragment

<220>
<221> modified_base
<222> (4)
<223> i

<400> 33
gcggggggcac ggatgcccaa atctccaggc attgagcggg ttgatccaag acatccagga 60
cccngtc 67